## **CLAIMS**

Please amend the previously presented claims as follows:

- 1-14. (Canceled)
- 15. (Currently Amended) Process for estimating a propagation channel formed by successive symbols of a multi-carrier signal each comprising at least one reference pilot and a plurality of frequencies carrying data, the process comprising:

extracting the said at least one reference pilot(s) present in each of the said symbols;

- obtaining a first estimate of the said propagation channel, by analysis of time/frequency interpolation on the said extracted reference pilot;
- independently correcting the said reference pilot, in phase and amplitude, and as a function of the said first estimate, to output pilots with phase and amplitude correction, said correction step including a step to calculate an amplitude and phase error vector for each of the said reference pilots;
- obtaining a second estimate of the said propagation channel, by analysis of the said corrected output pilot.
- 16. (Cancelled)
- 17. (Currently Amended) Process for estimating a propagation channel according to claim 46 15, wherein the said error vector calculation step includes averaging of a set of error vectors obtained on at least one symbol.
- 18. (Previously Presented) Process for estimating a propagation channel according to claim 17, wherein the said averaging is calculated on each symbol.
- 19. (Previously Presented) Process for estimating a propagation channel according to claim 17, wherein the said set of error vectors only includes error vectors that satisfy at least one predetermined quality criterion.

- 20. (Currently Amended) Process for estimating a propagation channel according to claim 16 15, wherein the said calculation step for an amplitude and phase error vector comprises a preliminary step in which the said pilots with an amplitude less than a first predetermined minimum average threshold and/or greater than a second predetermined maximum average threshold are rejected.
- 21. (Previously Presented) Process for estimating a propagation channel according to claim 15, wherein the said second estimate includes an equalisation step that depends on the first estimate.
- 22. (Previously Presented) Process for estimating a propagation channel according to claim 21, wherein the said equalisation step is performed on all carrier frequencies of each of the said symbols.
- 23. (Previously Presented) Process for estimating a propagation channel according to claim 21, wherein the process comprises a step after the said equalisation step to calculate a pulse response of the propagation channel as a function of the at least one reference pilot equalized by the equalization step, for refining synchronisation of receivers in time.
- 24. (Previously Presented) Process for estimating a propagation channel according to claim 15, wherein the said the reference pilot correction step includes a division of these pilots by the first estimate.
- 25. (Previously Presented) Process for estimating a propagation channel according to claim 17, wherein the said correction step of the at least one reference pilot also includes a final step to correct all equalised useful carriers taking account of an average value obtained as a result of the said averaging.

- 26. (Previously Presented) Process for estimating a propagation channel according to claim 15, and further comprising using the process for correction of at least one phase and/or amplitude error common to two cells in a same OFDM (Orthogonal Frequency Division Multiplex) type symbol.
- 27. (Currently Amended) A device for estimating a propagation channel formed of successive symbols of a multi-carrier signal each comprising at least one reference pilot, and a plurality of data carrier frequencies, the device comprising:
  - means for extracting the said at least one reference pilot present in each of the said symbols;
  - means for making a first estimate of the said propagation channel, by analysis of time/frequency interpolation on the said extracted at least one reference pilot;
  - means of independently correcting the said at least one reference pilot, in phase and amplitude, as a function of the said first estimate, to output one or more pilots with phase and amplitude correction, said correction step including a step to calculate an amplitude and phase error vector for each of the said reference pilots; and
  - means of making a second estimate of the said propagation channel, by analysis of the said one or more pilots with phase and amplitude correction.
- 28. (Currently Amended) A device for estimating a propagation channel formed of successive symbols of a multi-carrier signal each comprising at least one reference pilot, and a plurality of data carrier frequencies, the device comprising:
  - an extraction element, which extracts the at least one reference pilot present in each of the said symbols;
  - a first estimation element, which makes a first estimate of the propagation channel, by analysis of time/frequency interpolation on the extracted at least one reference

pilot;

- a correction element, which independently corrects the at least one reference pilot, in phase and amplitude, as a function of the first estimate, to output one or more pilots with phase and amplitude correction, said correction step including a step to calculate an amplitude and phase error vector for each of the said reference pilots; and
- a second estimation element, which makes a second estimate of the said propagation channel, by analysis of the one or more pilots with phase and amplitude correction.